AMENDMENTS TO THE CLAIMS

Docket No.: 0152-0803PUS1

 (Currently Amended) A guest-host polarizer comprising an oriented polymer film including an oriented polymerized liquid crystal host and a dichroic light-absorbing guest dispersed and oriented in the host, the oriented polymer film having a dichroic ratio of about 15 or more;

wherein the orientation of the oriented film is or corresponds to the orientation of a smectic phase S_X wherein the smectic phase S_X is not smectic A phase or smectic C phase.

 (Original) A guest-host polarizer as claimed in claim 1 wherein the oriented polymerized liquid crystal host is obtained by polymerizing an oriented polymerizable liquid crystal.

3. (Cancelled)

- (Previously presented) A guest-host polarizer as claimed in claim 1, wherein the oriented polymer film has a film thickness of about 10 µm or less.
- 5. (Previously presented) A guest-host polarizer as claimed in claim 1, wherein the dichroic light-absorbing guest is a blue absorbing dichroic colorant and the polarizer further comprises a thin film obtained from a perylene-based, naphthalene-based or anthraquinone-based lyotropic liquid crystal or combination thereof.

2 JWB/CMR

Application No. 10/578,062 Docket No.: 0152-0803PUS1

 (Withdrawn) A liquid crystal cell comprising a substrate, a liquid crystal layer and a guest-host polarizer as claimed in claim 1.

- (Withdrawn) The liquid crystal cell of claim 6 wherein the guest-host polarizer is arranged between the liquid crystal layer and the substrate.
- 8. (Withdrawn) A liquid crystal cell as claimed in claim 7 wherein at least one of a compensation layer, a retarder layer, a color filter layer and a viewing angle layer or other optical layer is arranged between the substrate and the liquid crystal layer.
- 9. (Withdrawn) A polymerizable liquid crystal for use in the manufacture of an oriented polymer film, the polymerizable liquid crystal having a smectic phase S_X where X is not A or C, with the exception of trans-1-[4-[6-(acryloyloxy)hexyloxy]cyclohexanecarboxyl]-4-[4-[6-(acryloyloxy)hexyloxy]benzoyloxy]benzene.
- (Withdrawn) A polymerizable liquid crystal as claimed in claim 9, wherein the polymerizable liquid crystal is one of the formula I

wherein

X, X' and X" are each, independently of one another, Ph or Cy;

where Ph is a 1,4-phenylene unit and Cy is a trans 1,4-cyclohexylene unit;

3 JWB/CMR

Y, Y' are each, independent of one another, $-CH_2CH_2$ -, $-CH_2O$ - or $-OCH_2$ -, -OCO-, -COO-, -COO-,

V, V' are each, independent of one another, a spacer; and

W, W' are each, independent of one another, a direct bond, -O-, -S-, -COO-, or -OCO-; with the proviso that if X, X' and X" are each Ph then Y' is -CH₂CH₂-, -CH₂O- or -OCH₂- and/or at least of one X, X' or X" is Ph.

- 11. (Withdrawn) A polymerizable liquid crystal as claimed in claim 10, wherein X is Ph, X' is Ph and X" is Cy or X is Ph, X' is Cy and X" is Ph.
- (Withdrawn) A polymerizable liquid crystal as claimed in claim 11, wherein X, X' and X" are each, independently of one another, Ph and Y' is -CH₂CH₂-, -CH₂O- or -OCH₂-.
- 13. (Withdrawn) A polymerizable liquid crystal thin film forming composition comprising a polymerizable liquid crystal as claimed in claim 9, and at least one of a polymerization initiator, a photo-initiator, a polymerization inhibitor, a preservative and a surfactant for adjusting the tilt angle adopted by the polymerizable crystal at a surface when a thin film is formed on such surface.

4

JWB/CMR

- 14. (Withdrawn) An oriented polymer film including a polymerized liquid crystal obtainable by polymerizing an oriented polymerizable liquid crystal as claimed in claim 9, or trans-1-[4-[6-(acryloyloxy)hexyloxy]cyclohexanecarboxyl]-4-[4-[6-acryloyloxy]benzoyloxy]be
- 15. (Withdrawn) A method of manufacturing a guest-host polarizer comprising an oriented polymer film including an oriented polymerized liquid crystal host and a dichroic light-absorbing guest dispersed and oriented in the host, the oriented polymer film having a dichroic ratio of about 15 or more, the method comprising:
- providing a thin film of a polymerizable liquid crystal host and, dispersed therein, a dichroic light-absorbing guest;
- orienting the polymerizable liquid crystal host and the dichroic light-absorbing guest to
 obtain an oriented thin film of oriented polymerizable liquid crystal host and a dichroic lightabsorbing guest dispersed and oriented in the host, the oriented thin film having a dichroic ratio
 of about 15 or more;
- polymerizing the polymerizable liquid crystal host in the oriented state to obtain an oriented polymer film including an oriented polymerized liquid crystal host and a dichroic light-absorbing guest dispersed and oriented in the host, the oriented polymer film having a dichroic ratio of about 15 or more.